

**HALOGENATED CALIXPYRROLES, CALIXPYRIDINOPYRROLES AND  
CALIXPYRIDINES, AND USES THEREOF**

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**ABSTRACT OF THE DISCLOSURE**

The present invention provides halogenated calixpyrrole, calixpyridinopyrrole, and calixpyridine macrocycles having 4-12 pyrrolic rings with greater stability, enhanced anion and neutral molecule binding affinity, and different binding selectivities as compared to their non-  
10 halogenated congeners as judged from  $^1\text{H}$  NMR,  $^{19}\text{F}$  NMR and fluorescence emission spectroscopic analyses.

DIGITAL IMAGE  
RECOGNITION  
SYSTEM